

FIG. 1

GCAGTAAGTGGAGGACAAAAAGGAATACTGGGATTAGATAGAATGTAGCG  
ACATTCTGCGGGGTGGGGTGGTATAAGTAGATATACAGAACGGAGGACCG  
TCTCCTGGTCCTCAGCTTTGGGTCTTCTCTACCTTGGCCTTGATCTTCTC  
CTCGAGGACCGCCTTCTCCGTGTCGAGGTTGAACATCCTGTTGAGGGCGT  
GCATGTTGTCGAGCGTCTCGTCCAGGGTGCGGCTGTCGCTGCCATCGCAT  
CTCAGGTGCTGCAACGGGCCGTGGAGGAGCTTGTTCACTATGCCCGTGCT  
CAGCTCTTCGATAGACCTTCTCGTCTTCTTGTTGAGGTTGTCTTCCCCGA  
TCTTCTGCAGGCACTTGTCGAGCTCGGATGCCCTGATCCTGTCGGCATA  
GACCTCAGCTTTTTTGATGGTCGGGACCGTCTCCAGCGAGTCCCTCCACGC  
CTCGAACCGCTTCAGTTCTTGGGTGATGATTGCTTGGGCCTCCATTGCTT  
TCCTGACACGGTCTTCCTTGTTGGCTTCCACCACCTCTTTCAAGTCGTCA  
ACATTGTATACCCGTGCGTGCTCCACTTGAGATAGGCAGGCACCGACGTT  
CCTTGGGACGGATATGTCGACGAAAAGCCGAACACCACCCATGGCAAGAG  
AGATAGGAGGAAGCGCCTCCGCATGCCCCCTTGGTGAAT

FIG. 2

H 6 0 2 : A T C T T C T G C A G G C A C T T G T C G  
PstI  
HARUNA NIJO : A T C T T C T G C A A G C A C T T G T C G

## FIG. 3

AGATGACAGCTAGGCCCTGAGCAGGGGACACATGAATATTTCCCGCTCAC  
TACCCTATCTATACTATCCAGTATCTACACATGAATATTTCCAGAGATTT  
TGCTATTATGATACTGCGATCAAGAACTGTCTGCAAAATCAAGAAACACT  
ATTTTGATTACGTCCCTATGATATACTGCTAGTTCCTATATATCTTTCT  
GGGTTGGTGAACTTGAGCTTCTGACTGACTGCTTGGTAGGTTTCATCTCCG  
TGTTCTCTGGACTTGAAGGTGTGAGGAAGGGCATGCCTCCAGAGAAGAA  
AAGCGTGTTGTGTGCCTACCAAACCTTGCTTCGTTGACAGCCCAAGGGCAG  
GTCCCCACGTGTCGTGCTTTATTTTCCTTCTTTTCATAAACACCTTCAA  
ACTTTTTTCAACCACGCGCTGCAACTGGAAGTAATGATTGTACAGGCTCT  
TCTTTAATTCAAATCACACGCAACGTCACAAATACTAACCTTGACATGCC  
TGGAACGGCAGTGTGGCTACCATCCACCTTCGCCTAGTTGCCATGTATA  
AAGATACGGTGGAGCTTGTTGGCATTGACCGCATAAGGAACGAACTCAA  
AGCTGCTTAATGAGGACAAGACATCTAATGAAGAACAATTGAAGA

FIG. 4

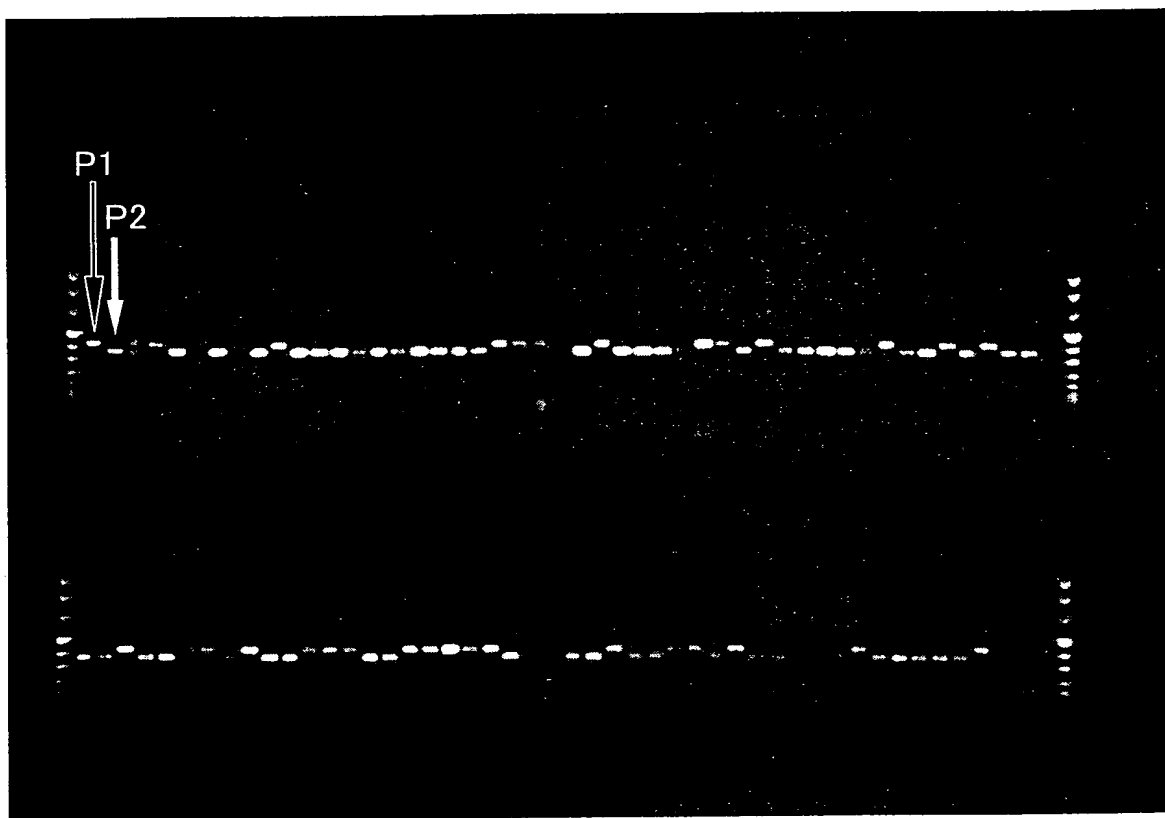


FIG. 5

CATGCACATNAATTGAATACAGGNACTAGNAACTTACAATACATAAGCGT  
 GACGACATTCCATAACTCCAATGTGATTTTGTAGTACGTACAACATGA  
 TCTAATTATTATTATGGCGCCATCCAATTCTTAGCGACCGACGAGATGTT  
 TTCATCGTTGTTTGTAGTAACACAAAACAGAGTAGACTGTTTGGATGACT  
GCGAGAAGTAAGCCAATAGCAGCTGCCATGAGCCCAACGGCAAGCCATGG  
 GTTCCTCAAGTACCTCTGCCTTAGCCAGGCAGTCCACCTCCGGGGGTTGC  
 TCTGGAACCGCTTCTCCAGCTTCTTGCAATGTCTCCCGTAGGTAGTTGCAG  
 CCGGGGTCATCAGGGTCAAACATAATCCCCTTGCAAAGGTGACGAAGCA  
 TTTGGCCACCTCTTCGTTGTTGCCGTGGCCGTGCACGATGACGCCTCTCC  
 TCACCAAGAGCTCCACGTCCTTCGTGGTGCAGGCCATCTGGGACATGAAC  
 ACGCAGTATGCCGTGACATGGCTCCCCACCGTCTCCCGGTTCTCTGTCTC  
CAGCTCCATCAGGTTGCGTAATAGCCGCCACGTCTCGGCGTCGATGTCCA  
 GGACGGGGATCTCCAGCGTACCGCCACCGCCGTCCAGCTTCACGTCGAGG  
 ATGCAGCGGATGACACCCTTCTCGCTCATGGCCCCGGGCGTTGAAC

FIG. 6

H602 : TGCCGTGGCC G TGCA CGATGA  
ApaI.  
 HARUNA NIJO : TGCCGTGGCC A TGCA CGATGA

FIG. 7

AATCTTAGCATTCTCTCTATTTACGAATTACCTAATGGTAATGCAT  
GAGCAGTAGTCACAGGATAACTTCCGATACCTCCAAGCAGTTGCAACTCA  
TAAGATGAAATTATTTACAAAGAGTGGCCATGACTACCTACCCTACCTGC  
TATCTACAGTTTTTTTTGGATATACTATTCACAGTTGGTGTCTGAAGAGAC  
GTAACCAATCTAGGAACATACATGGGCAAGGAATGACCCCGGAAGCTAAG  
ATGATGAATTGGAAGAGGAGTCATGTACACAACCTACTTATAGACTATAT  
ATAATTTTAGGGCCATTTCTCAACCAACACCTATTTGACAAGGGCAAGAA  
TTTTACTTCGTATTGATGAAACAGATATCACAATTCACCATTACGGCATT  
ACTTACCTAGTTGATGCCAAAGAACTTAATAATATCTAAGAAACTATCC  
ACCTAAGGAATGACCAGAGAAGCTGAGATGATGAATTGGAAGGAGTCAA  
TACAGAACCCATTTTTAGATTATATGTACAAAATTTTAGGGTCATTACTC  
AGCCACACACCTATTTGAAAACAACAGGAAGAATTTACTTAGTCATGAT  
GAAACAGATTTCTTTTAACAAATAAGAATTCGACTACTCCTTAGATATCT  
AAAGATGGATGACGTAGCCAGATACCATGTAGAACA CTGAAAAGGCGTGT  
ACCGCATGTTCCGACTGAAGACTATCAATCATGGTAAG

FIG. 8

H602 : ATTACTCAGCTACACACCTAT  
AluI  
HARUNA NIJO : ATTACTCAGCCACACACCTAT

## FIG. 9

H602 : CTTATGTGATCATAATACTGC  
*Mbol*  
HARUNA NIJO : CTTATGTGATAATAATACTGC

## FIG. 10

H602 : AGCCTTCCACTTGGTATCATTT  
HARUNA NIJO : AGCCTTCCACCGGTATCATTT  
*HapII*

## FIG. 11

H602 : TTTATGTGCCTGTAGCGGTTG  
HARUNA NIJO : TTTATGTGCCGGTAGCGGTTG  
*HapII*

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LEFT LANE ← → RIGHT LANE

FIG. 12

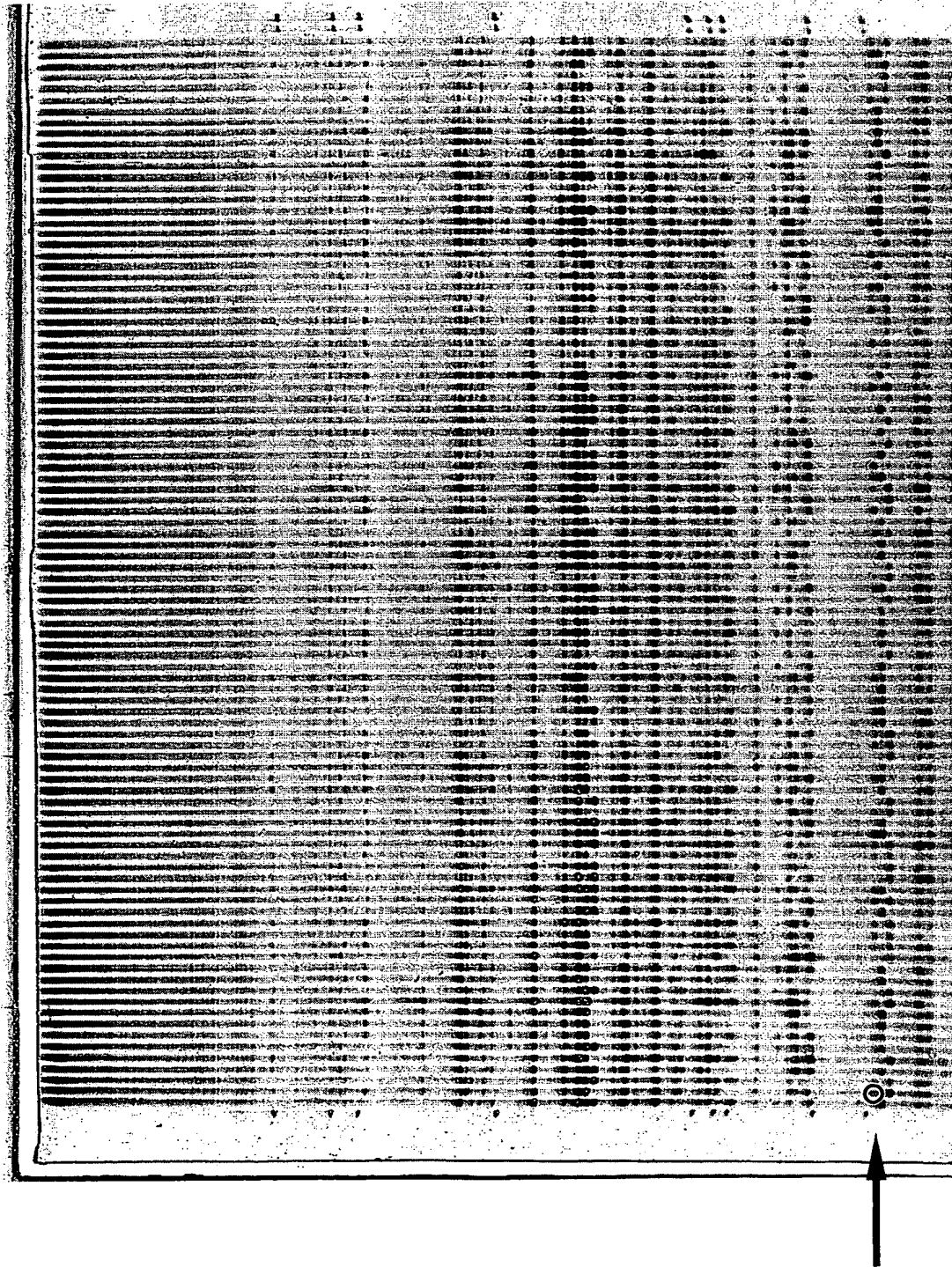
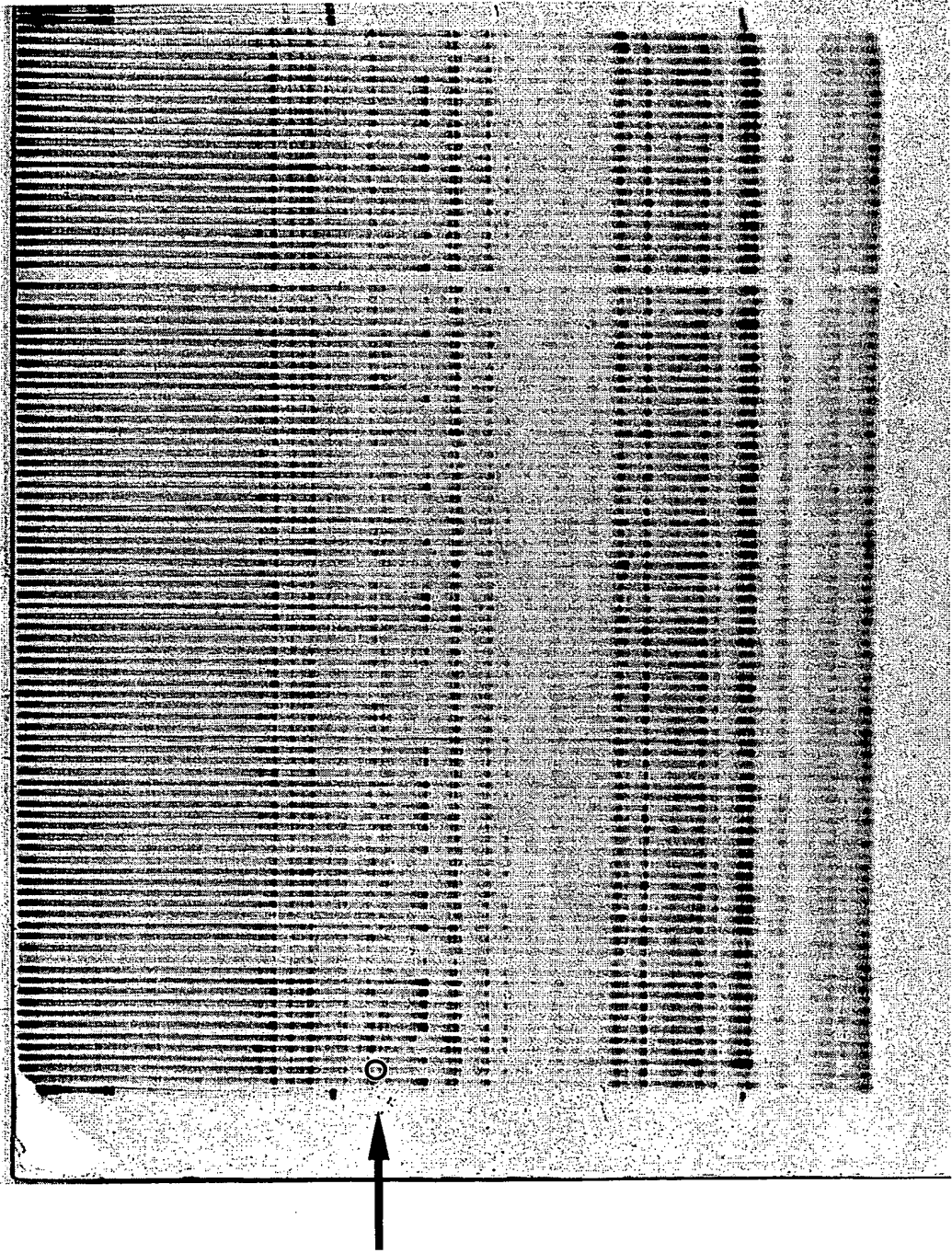


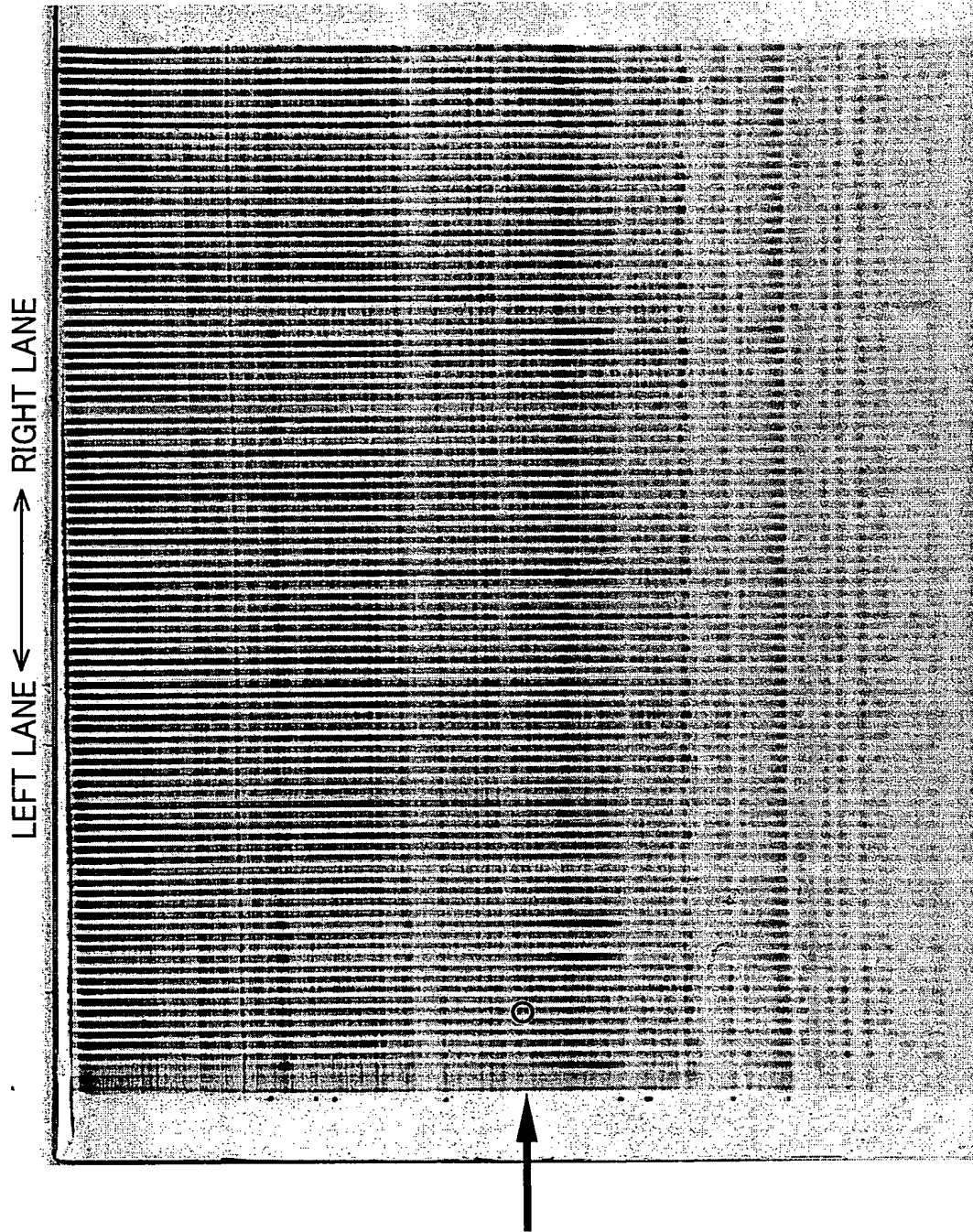
FIG. 13

LEFT LANE ← ————— → RIGHT LANE



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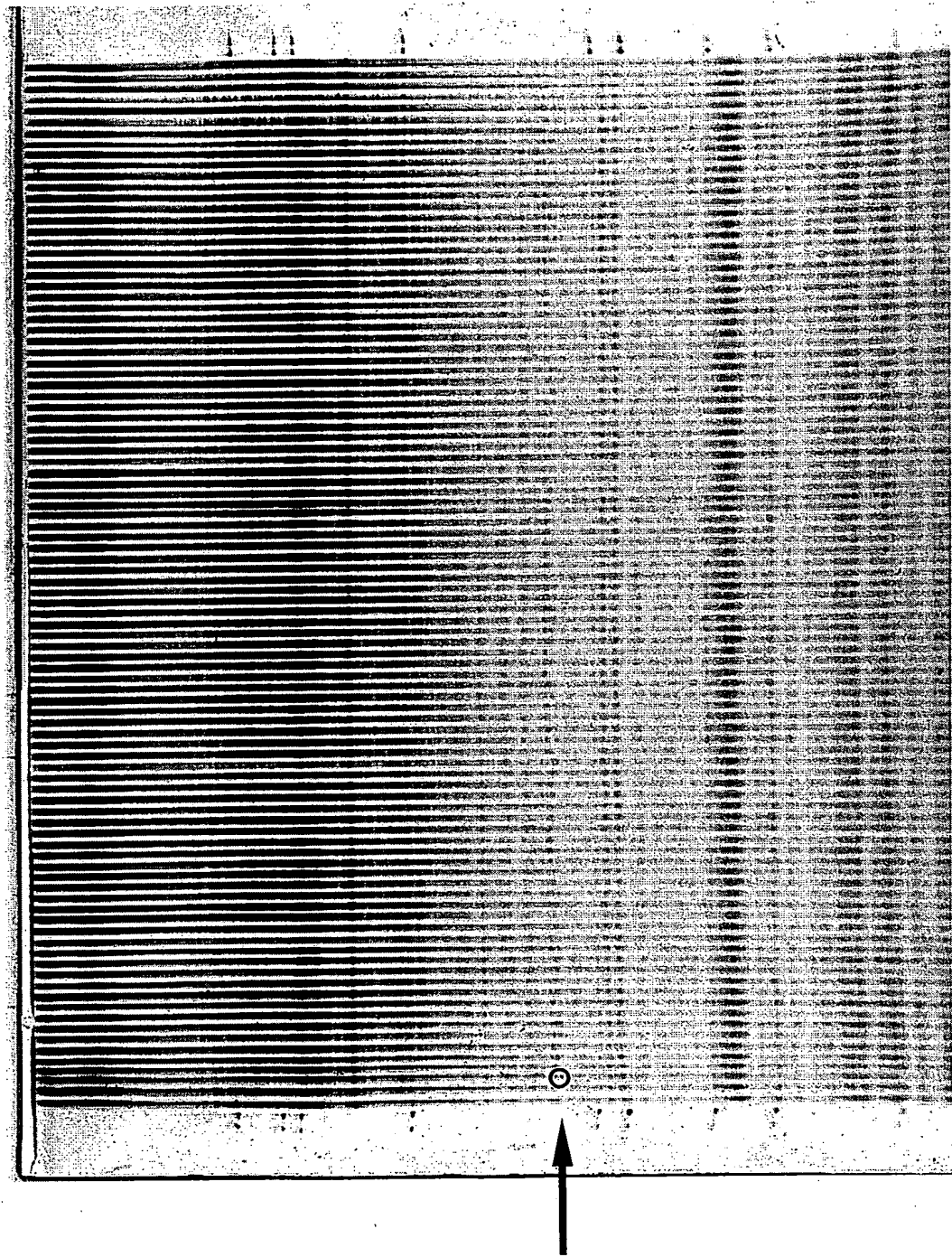
FIG. 14



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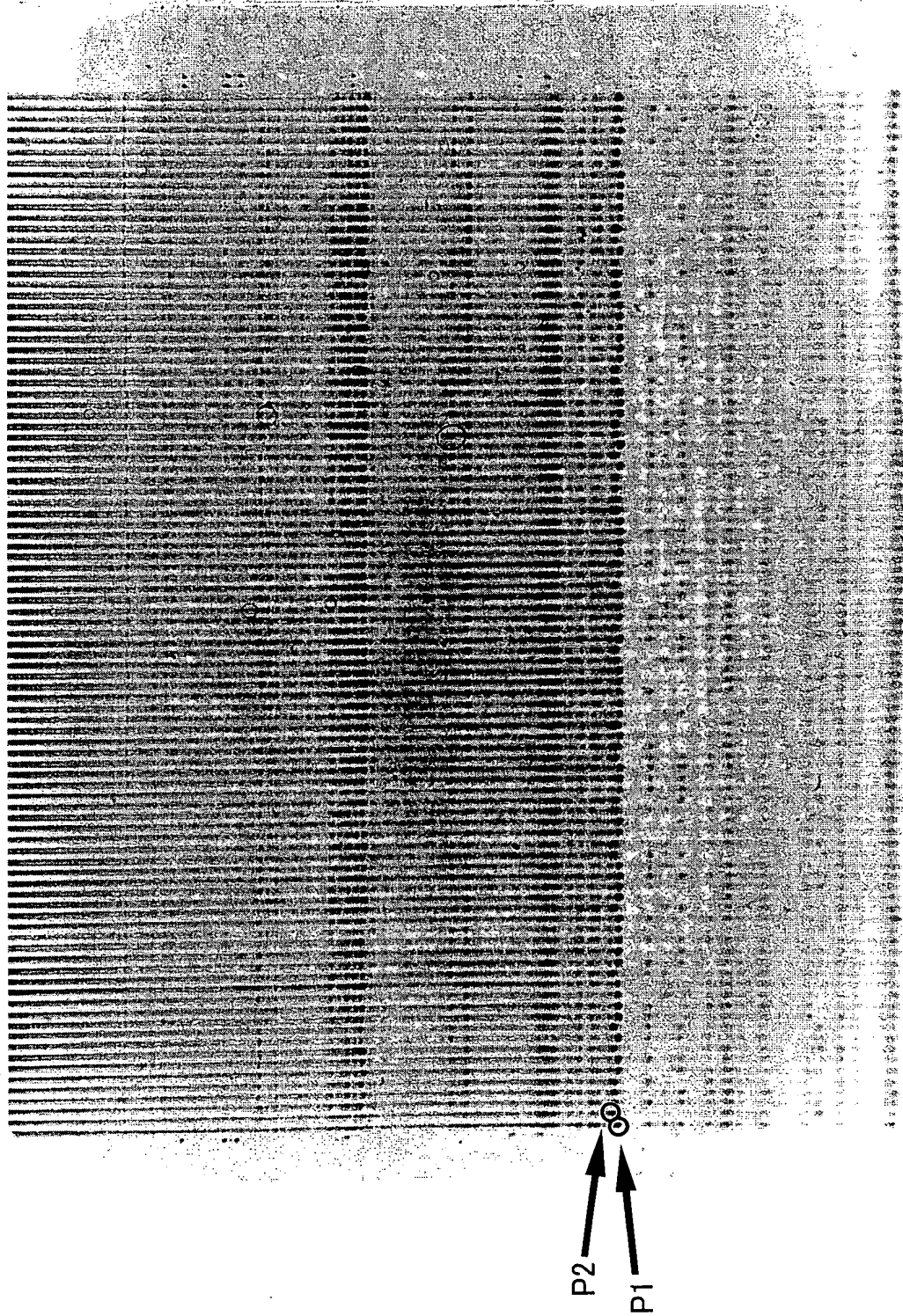
LEFT LANE ← → RIGHT LANE

FIG. 15



LEFT LANE ← → RIGHT LANE

FIG. 16



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FIG. 17

LEFT LANE ← → RIGHT LANE

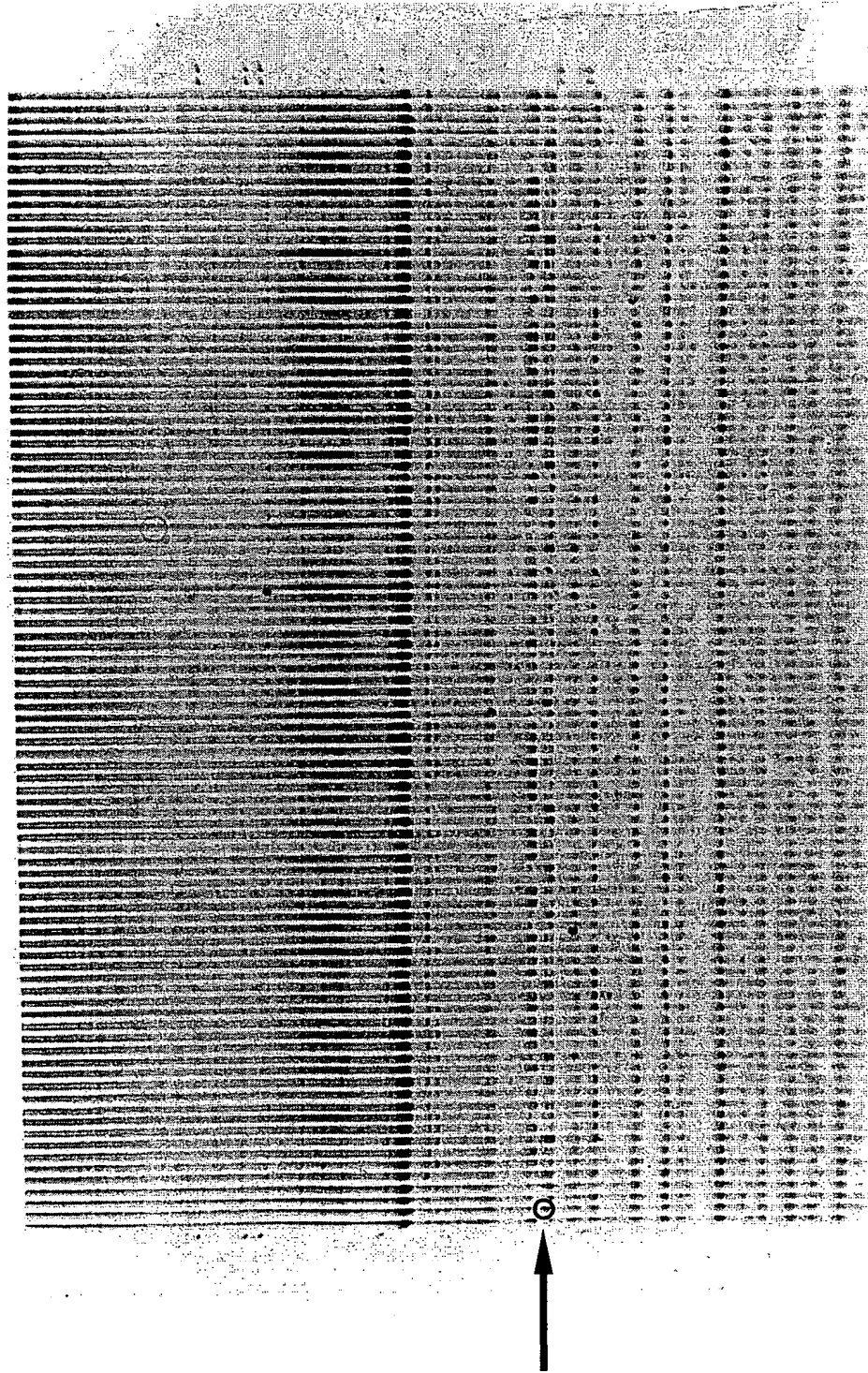


FIG. 18

LEFT LANE ← → RIGHT LANE

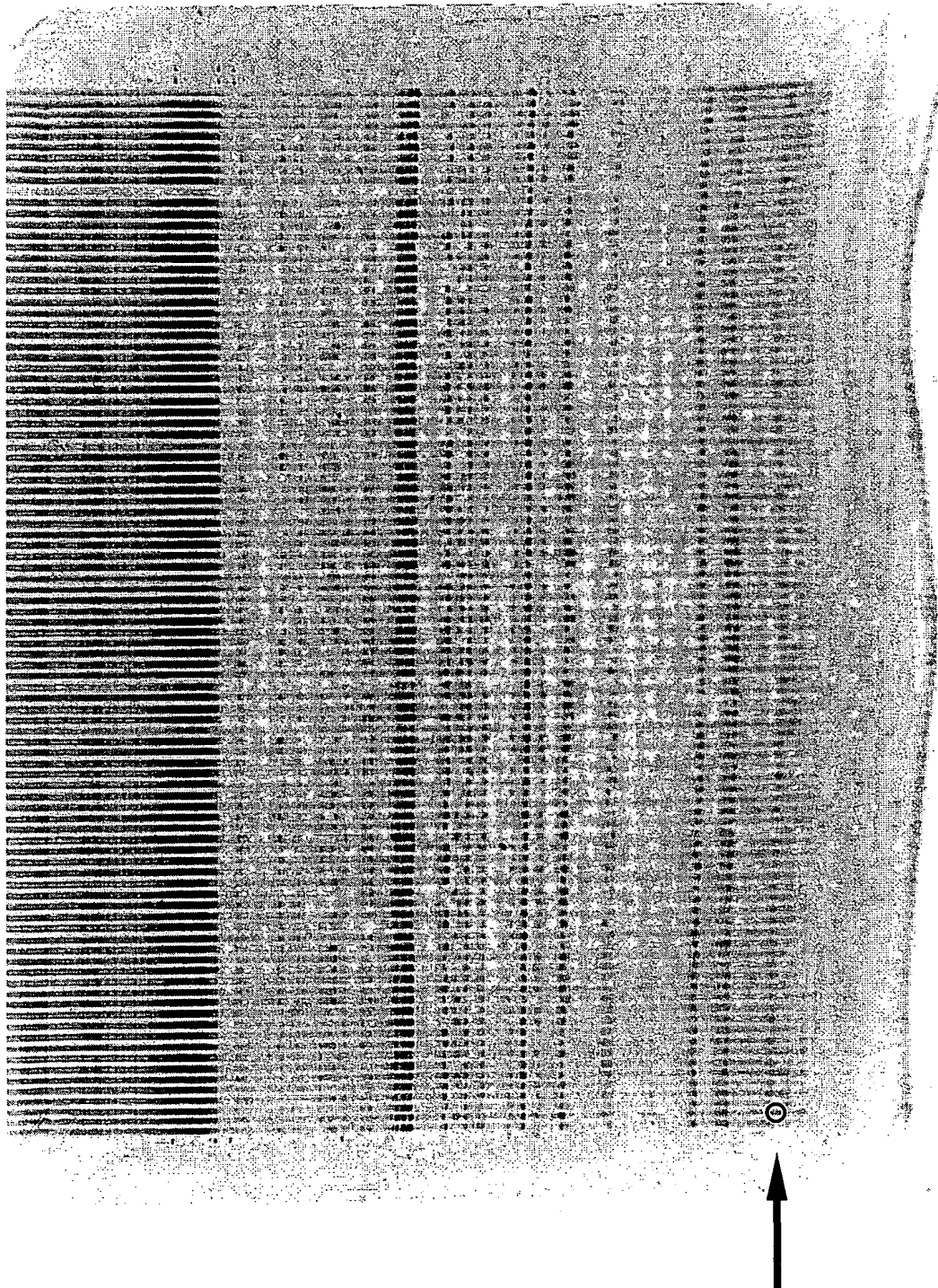
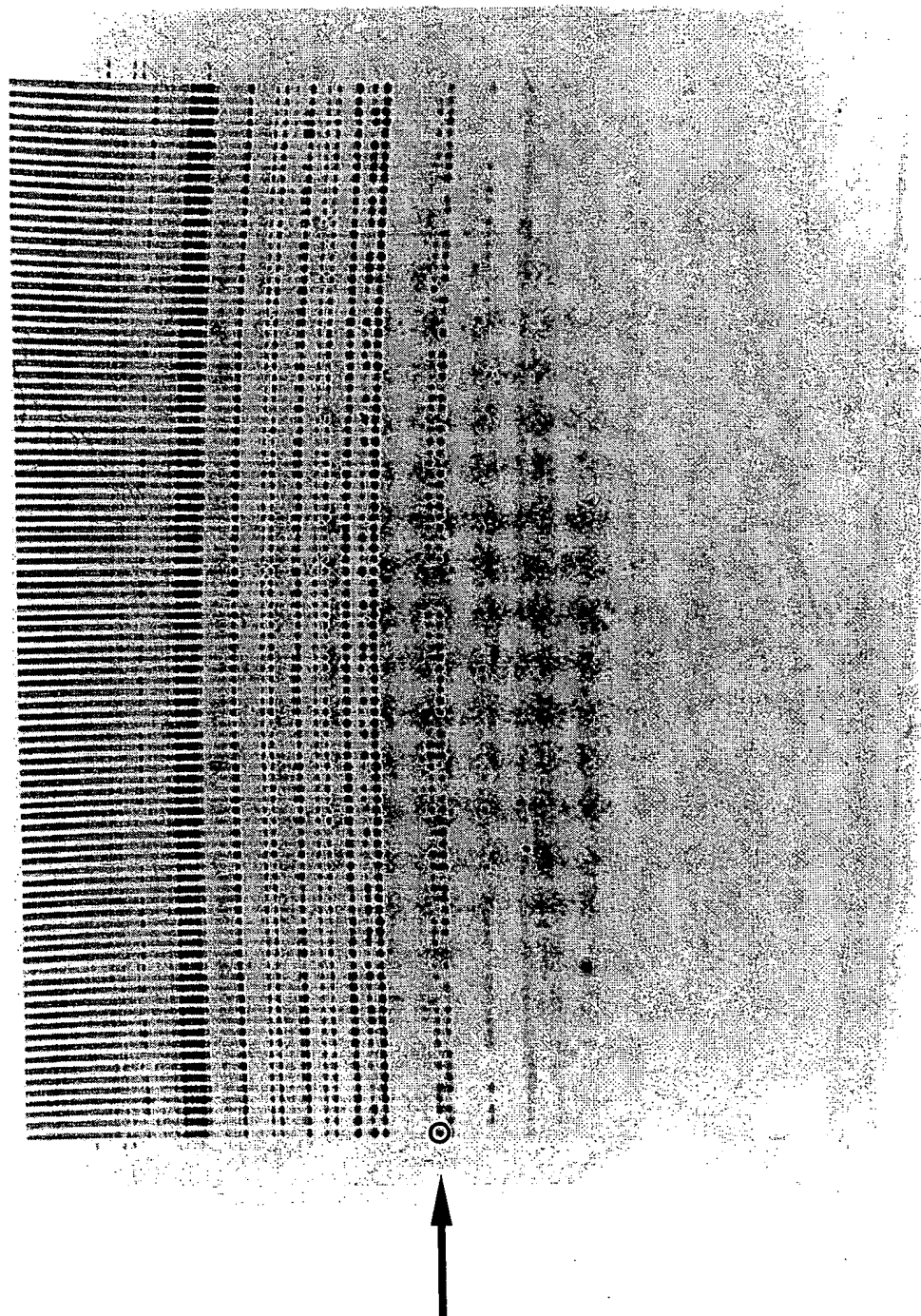


FIG. 19

LEFT LANE ← → RIGHT LANE



LEFT LANE ← → RIGHT LANE

FIG. 20

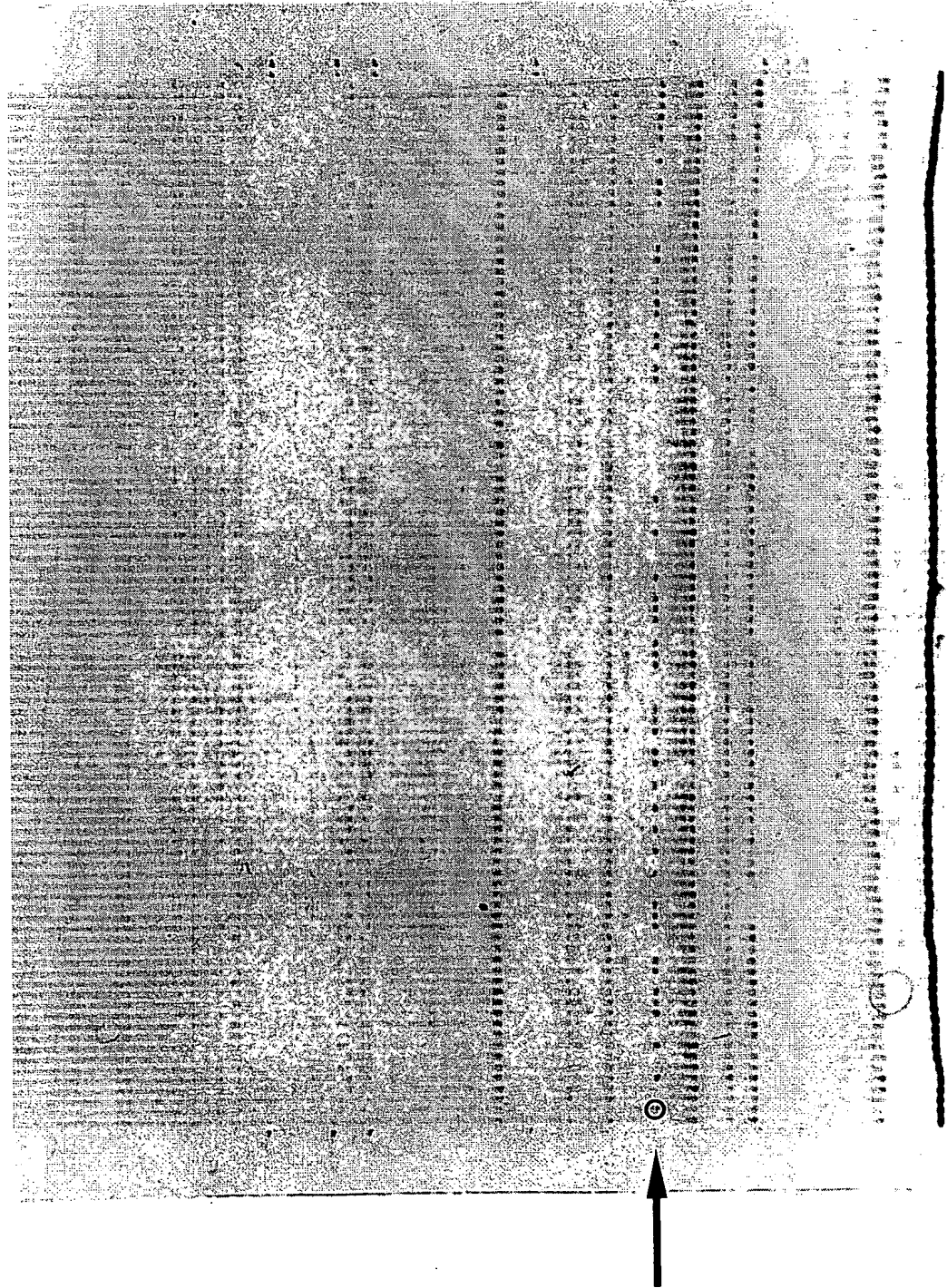


FIG. 21

LEFT LANE ← → RIGHT LANE

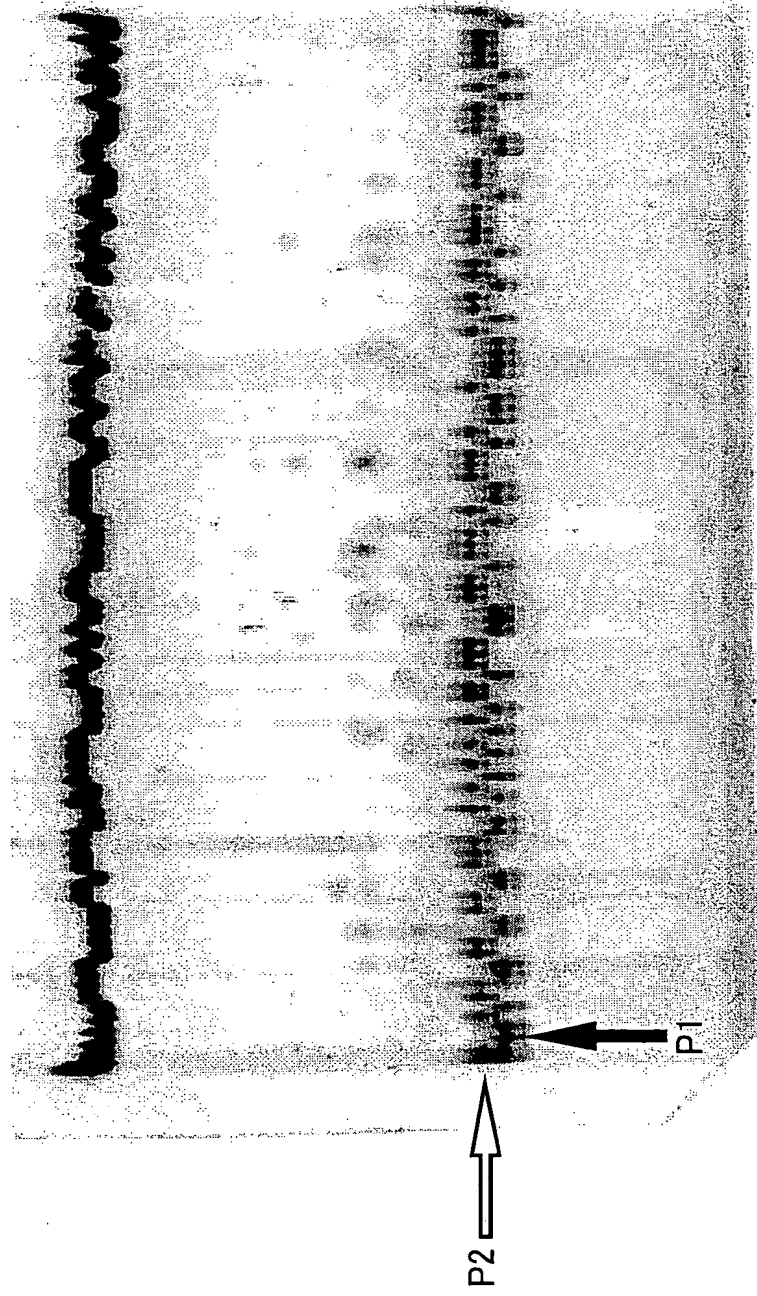


FIG. 22

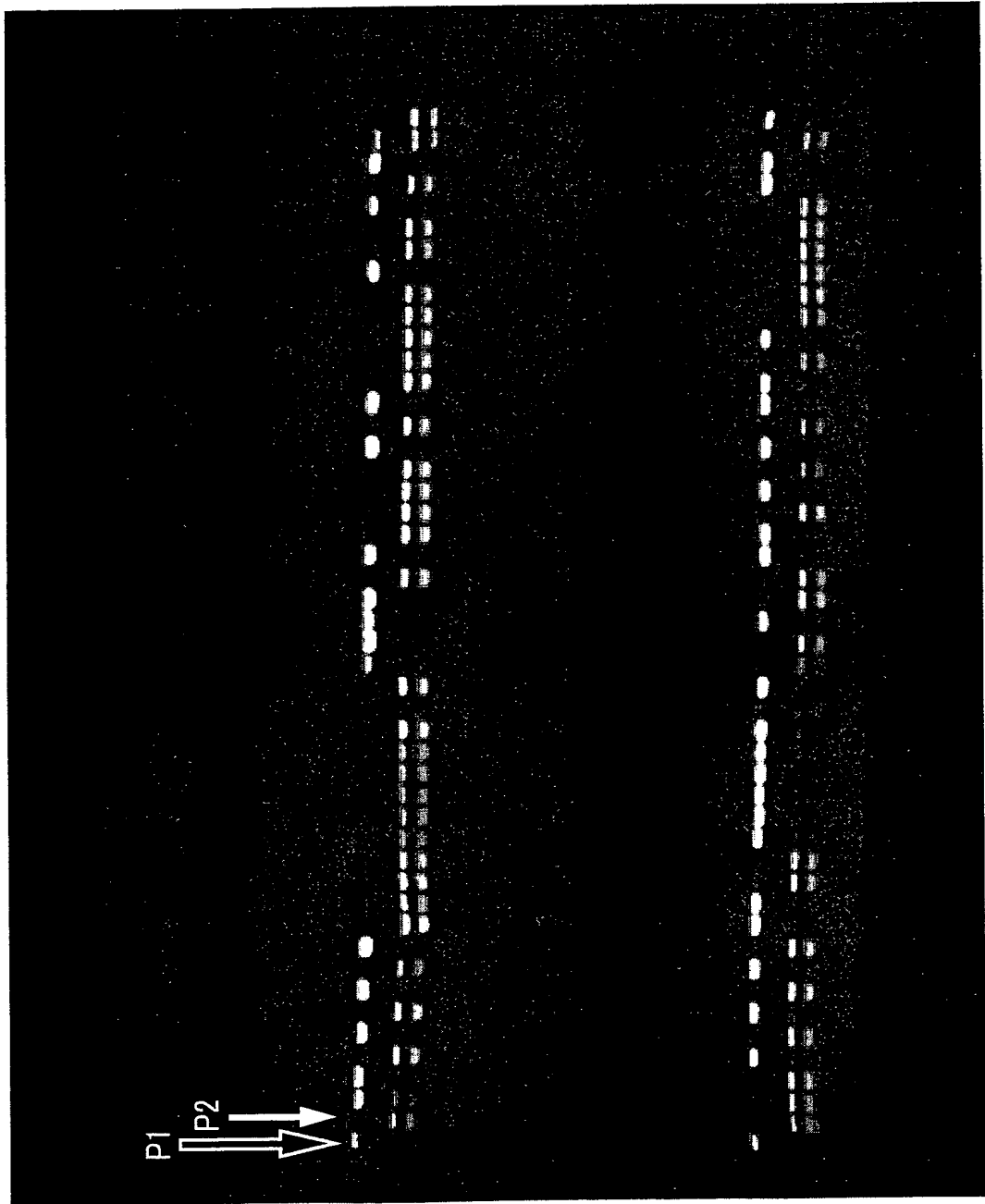


FIG. 23

LEFT LANE ← → RIGHT LANE

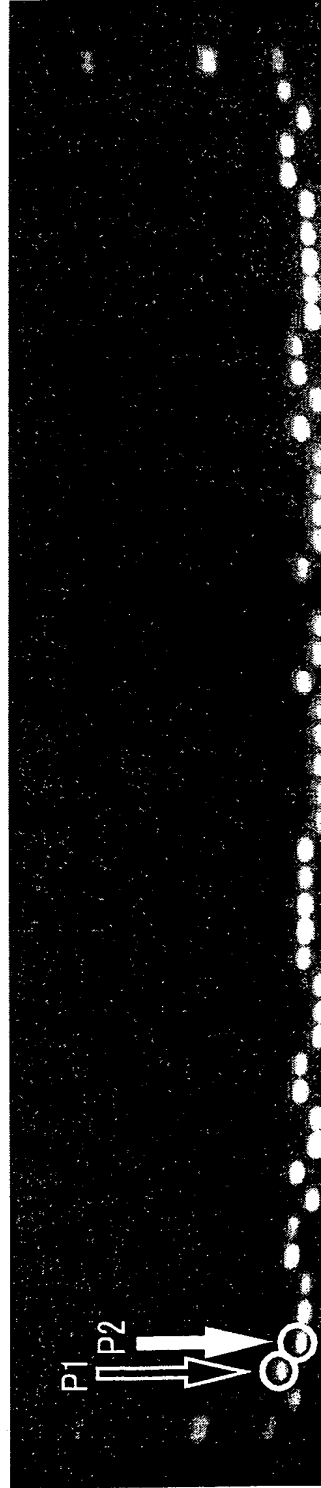


FIG. 24

LEFT LANE ← → RIGHT LANE

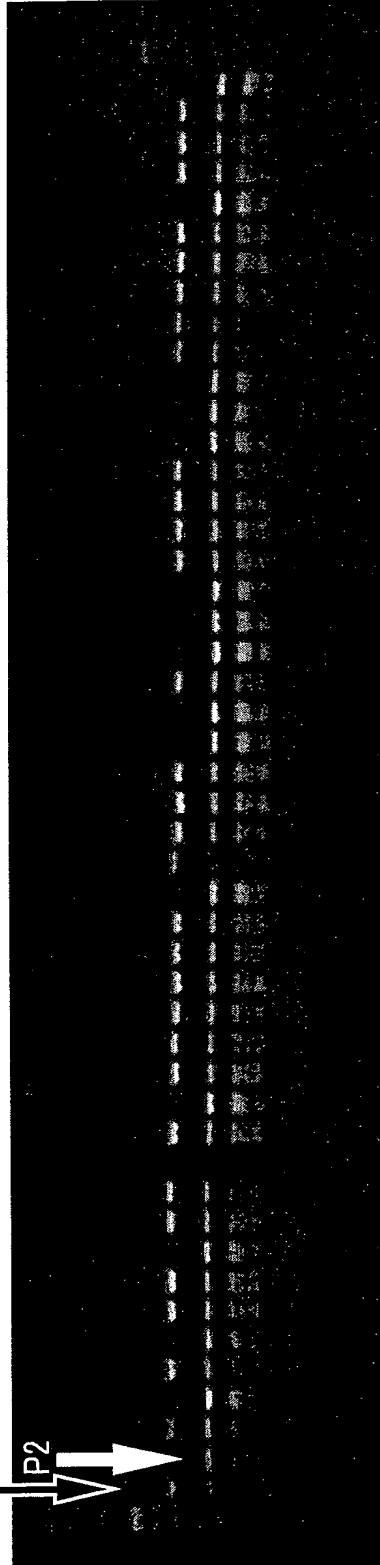


FIG. 25

LEFT LANE ← → RIGHT LANE

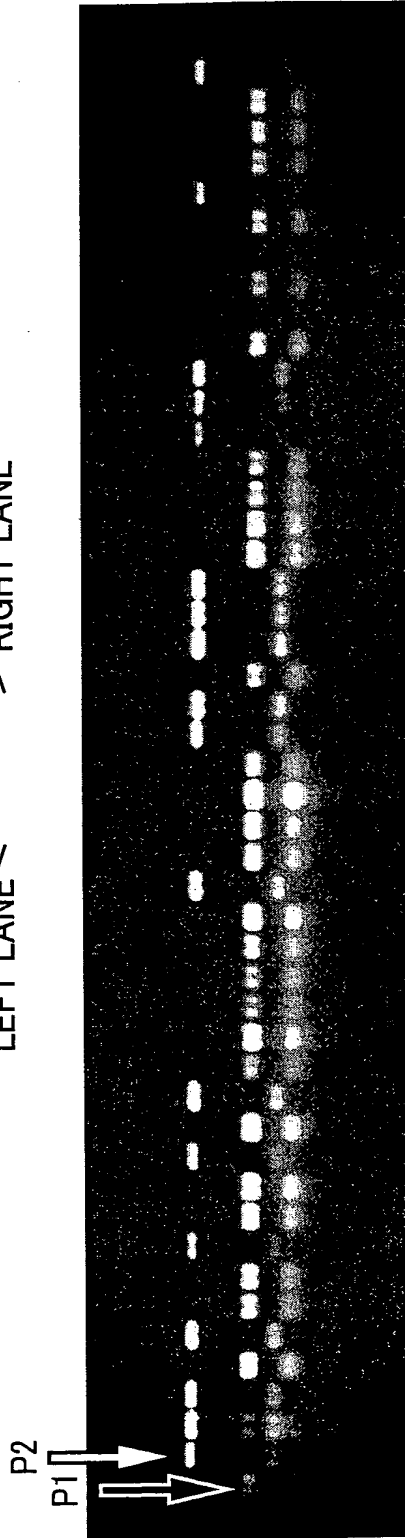


FIG. 26

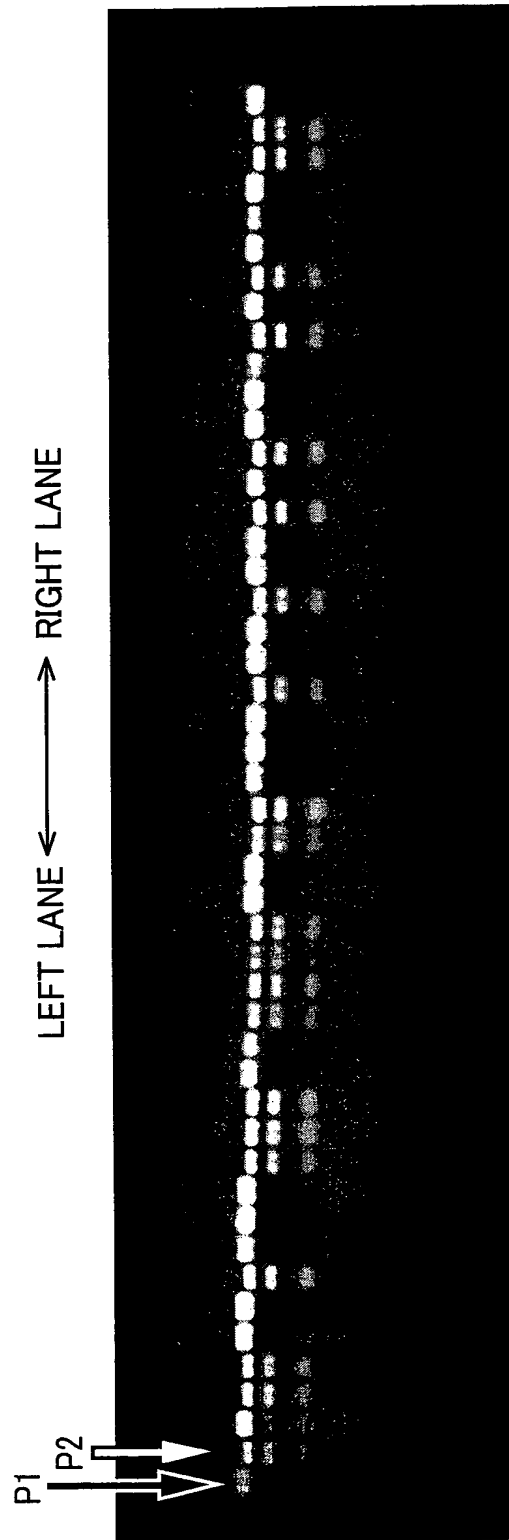


FIG. 27

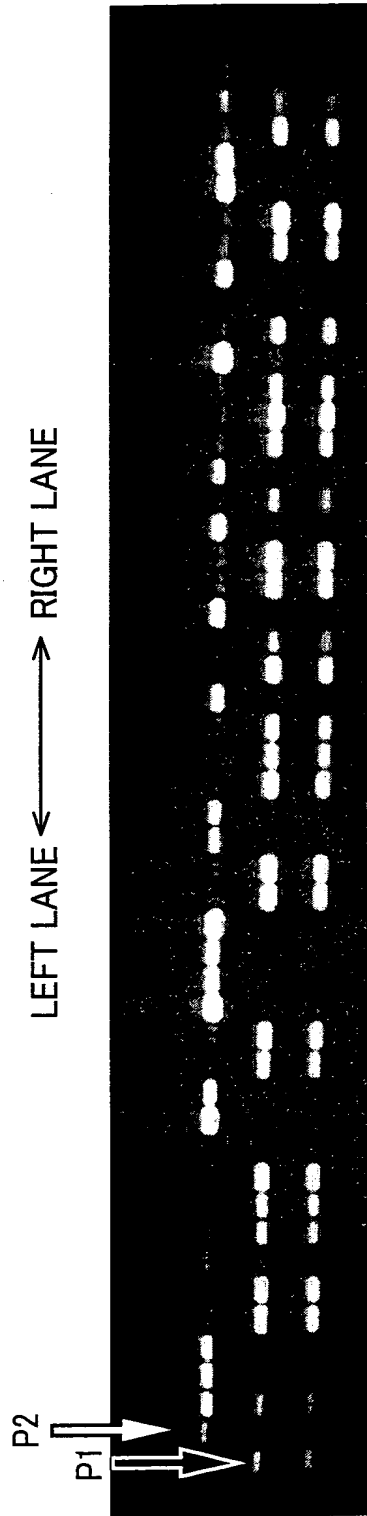
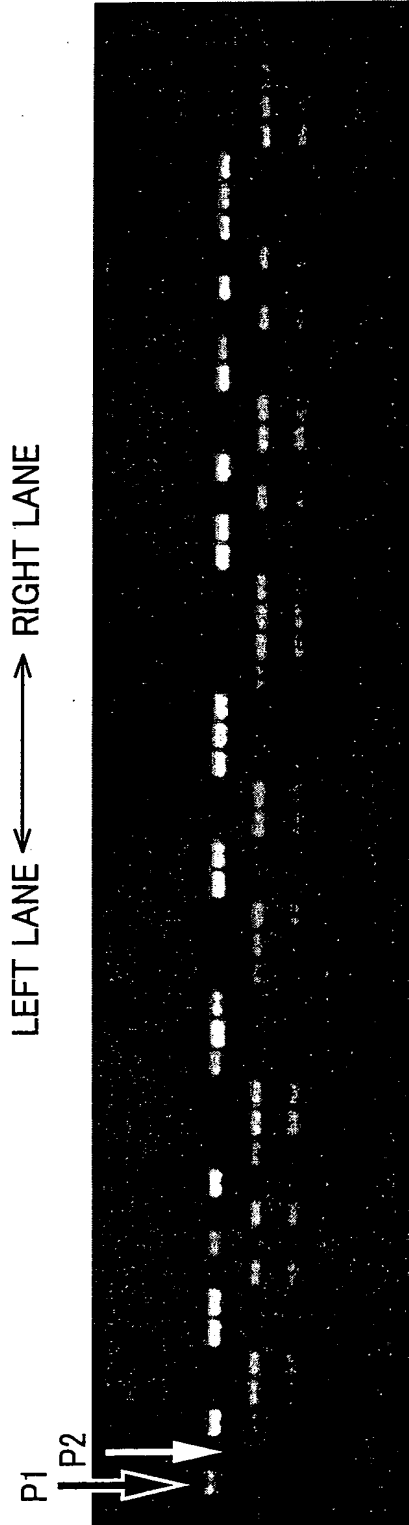


FIG. 28



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